



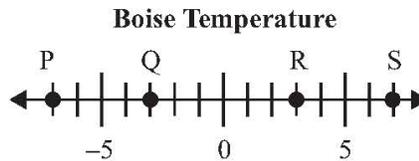
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BOISE, IDAHO 83720-0027

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PUBLIC INSTRUCTION

ISAT Sample Questions: Grade 6 Mathematics

1. Use the number line below to answer the question.



Randy measured the temperature in Boise at -3 degrees Fahrenheit one morning. Which point on the number line represents -3 ?

- A. P
B. Q
C. R
D. S
2. Dan owned $2\frac{3}{4}$ acres of land. He buys $\frac{2}{3}$ acre of land. How many total acres of land does Dan own?
- A. $1\frac{5}{6}$
B. $2\frac{1}{12}$
C. $2\frac{5}{12}$
D. $3\frac{5}{12}$
3. Pablo made 87 cupcakes for the bake sale. His mother made 22 more. Pablo estimated the total number of cupcakes they both made. Which is an **underestimate** of the total number of cupcakes?
- A. $80 + 20$
B. $80 + 30$
C. $90 + 20$
D. $90 + 30$



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4. The diameter, d , of a dime is 17.91 millimeters. What is the circumference of a dime, to the nearest hundredth? (Use 3.14 for π)

$$C = \pi d$$

- A. 21.05 millimeters
B. 28.12 millimeters
C. 56.24 millimeters
D. 112.47 millimeters
5. On a scale drawing of a baseball field, the distance between first and second base is 18 inches. The actual distance between first and second base is 90 feet. What is the scale for the drawing?
- A. 1 inch : 5 feet
B. 1 inch : 18 feet
C. 1 inch : 72 feet
D. 1 inch : 90 feet
6. Jana earns \$8 per hour as a lifeguard. Which equation always shows Jana's income, I , for the number of hours, h , that she works?
- A. $I = 8 + h$
B. $I = 8 - h$
C. $I = 8 \times h$
D. $I = 8 \div h$



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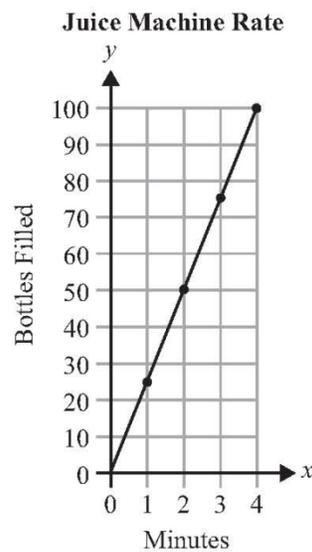
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7. Michael works at two different jobs each week. He works 6 hours a day for c days and 3 hours a day for r days. The expression below can be used to find the total number of hours Michael works at the two jobs in a week.

$$6 \times c + 3 \times r$$

What is the total number of hours Michael works in a week when $c = 3$ and $r = 2$?

- A. 18
 - B. 21
 - C. 24
 - D. 27
8. Use the graph below to answer the question.





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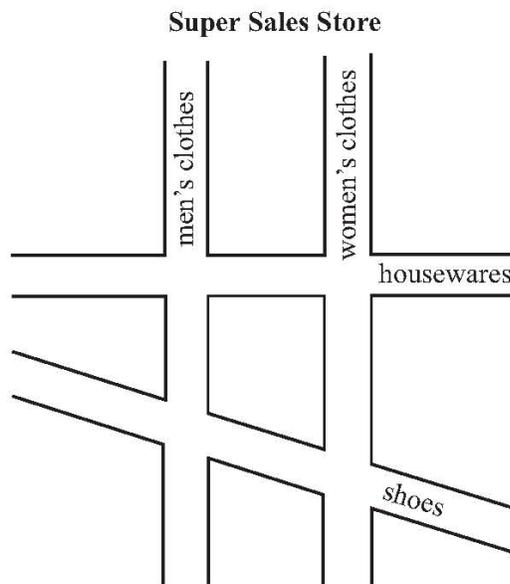
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The graph shows the number of juice bottles a machine fills. How many bottles did the juice machine fill per minute?

- A. 10
- B. 25
- C. 50
- D. 100

9. Use the figure below to answer the question.



The figure shows four aisles in the Super Sales Store. Which two aisles appear to be parallel?

- A. housewares and shoes
- B. men's clothes and housewares
- C. shoes and women's clothes
- D. women's clothes and men's clothes

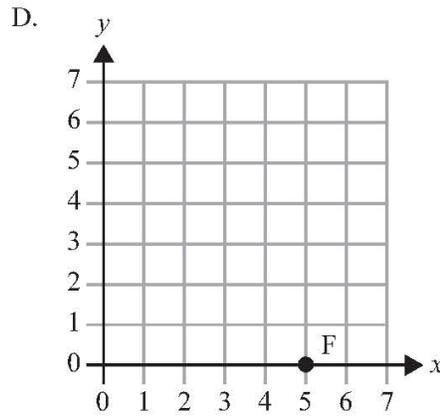
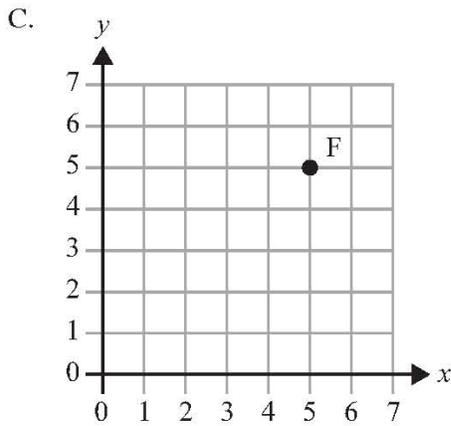
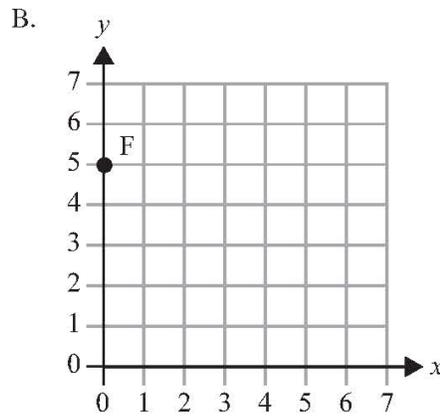
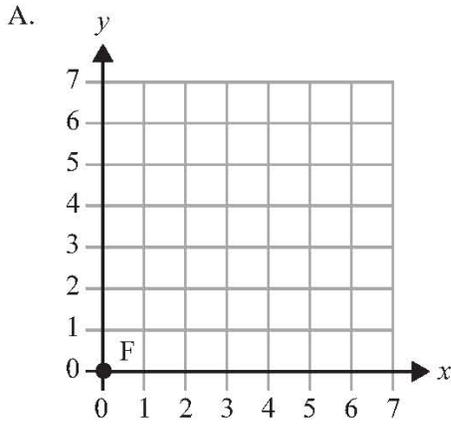


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10. Jason is making a map of his town. He marks the fire station with the letter F at the point $(5,0)$. Which shows point F at $(5,0)$?





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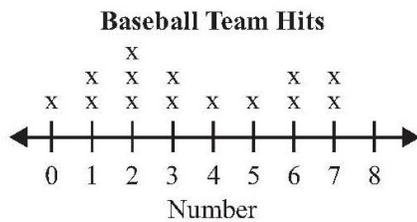
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11. Use the list of numbers below to answer the question.

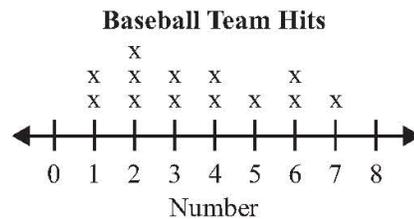
3, 6, 0, 2, 2, 1, 4, 3, 4, 2, 5, 1, 6, 7

The number of hits each player on the Peterson High School baseball team had in two games is shown. There are 14 players on the team. Which line plot shows the data?

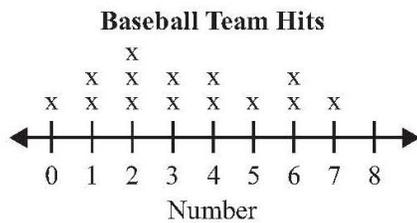
A.



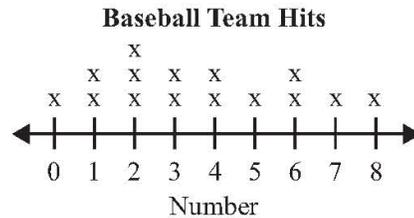
B.



C.



D.



12. Use the list of numbers below to answer the question.

66, 63, 61, 66, 66, 56, 57, 62, 66, 72

Trina recorded the temperatures for the first ten days of October as shown. What is the range of the temperatures?

- A. 6
- B. 16
- C. 66
- D. 72



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ISAT Sample Questions: Grade 6 Mathematics

Question #	Correct Answer	Standard/Goal/Objective
1	B	1.1.3
2	D	1.2.5
3	A	1.3.3
4	C	2.1.4
5	A	2.2.1
6	C	3.1.2
7	C	3.2.2
8	B	3.4.3
9	D	4.1.3
10	D	4.3.1
11	C	5.2.1
12	B	5.3.2